

UNITED STATES DEPARTMENT OF COMMERCY United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

	APPLICATION NO.	FILING DATE	FIRST NAMED IN	NVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/812,449	03/29/2004	Pauline Maria Fost	er-Hamilton	0707-00342 - G00342/US	3169
	35758 7590 01/19/2007 GKN DRIVELINE NORTH AMERICA, INC 3300 UNIVERSITY DRIVE AUBURN HILLS, MI 48326				EXAMINER	
			n, inc	,	DUNWOODY, AARON M	
					ART UNIT	PAPER NUMBER
				•	3679	
	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DA	TE	DELIVERY MODE	
	3 MO	NTHS	01/19/20	07	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/812,449	FOSTER-HAMILTON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Aaron M. Dunwoody	3679				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on <u>06 November 2006</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims		·				
 4) Claim(s) 1-22 and 24-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 12-22 and 26 is/are allowed. 6) Claim(s) 1-11,24 and 25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:					

Application/Control Number: 10/812,449

Art Unit: 3679

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4-6 appear to define the invention of a boot by the non-claimed inventions of a ball spline joint and a constant velocity joint.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11, 24 and 25 are rejected under 35 U.S.C. 102(b) as being ancitipated by US 4878389, Boge.

In regards to claim 1, Boge discloses an improved boot comprising:

- a plurality of articulating convolutes (24-26);
- a grease catching member (45, 46);
- a first stabilizing member (31-34) joining the plurality of articulating convolutes and the grease catching member;
 - a plurality of plunging convolutes(55-57); and

Application/Control Number: 10/812,449

Art Unit: 3679

a second stabilizing member (41-44) joining the plurality of plunging convolutes and the grease catching member.

Note, constant velocity joint and ball spline joint assembly are not part of the claimed invention.

In regards to claim 2, Boge discloses the articulating convolutes selectively accommodate joint articulation to an angle of at least 15 degrees.

In regards to claim 3, Boge discloses the plunging convolutes selective accommodate joint plunge of at least 45 mm.

In regards to claim 4, Boge discloses the first stabilizing member selectively circumscribing an inner race of the ball spline joint by about 1 mm.

In regards to claim 5, Boge discloses the second stabilizing member selectively circumscribes an outer race of the ball spline joint.

In regards to claim 6, Boge discloses the constant velocity joint being a high speed fixed joint.

In regards to claim 7, Boge discloses the boot selectively accommodating vehicle installation at an angle of at least 15 degrees.

In regards to claim 8, Boge discloses the boot selectively accommodating joint operation up to approximately 7 degrees and 9000 revolutions per minute.

In regards to claim 9, Boge discloses the boot being adapted to accommodate compressive plunge of at least 15 mm and extension of 30 mm.

In regards to claim 10, Boge discloses the boot being adapted to accommodate joint plunge of at least 45 mm.

Application/Control Number: 10/812,449

Art Unit: 3679

In regards to claim 11, Boge discloses the boot being comprised of a

thermoplastic material.

In regards to claim 24, Boge discloses an external diameter of the grease catching member being generally greater than external diameters of either the first stabilizing member or the second stabilizing member.

In regards to claim 25, Boge discloses an external diameter of the first stabilizing member being generally less than an external diameter of either the second stabilizing member of the outer race of the ball spline joint.

Allowable Subject Matter

Claims 12-22 and 26 are allowed.

Response to Arguments

Applicant's arguments with respect to claims above have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M. Dunwoody whose telephone number is 571-272-7080. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on 571-272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3679

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aaron M Dunwoody Primary Examiner Art Unit 3679 Page 5

.amd